RALEIGH AMATEUR RADIO SOCIETY
RARS
WORLDWIDE FRIENDSHIP

AFFILIATE

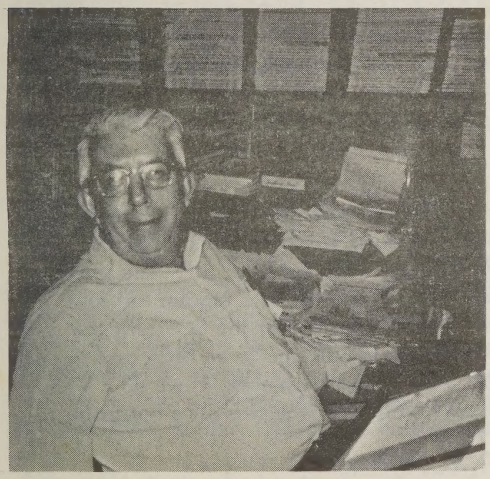
DAVE LANGLEY, W4YDY/K4IWJ
EDITOR

TOM ALEXANDER, WA4OTA
ASSISTANT EDITOR

"Raleigh Amateur Radio Society News"

JUNE 1973 ISSUE 44

MEET YOUR MEMBERS... TOM GRAHAM, WN4WII



Our subject this month is relatively new to RARS, having been a member just over two years, but certainly is not new to ham radio, receiving his first license in 1931 as W4BXK. He has lived in Raleigh since he was twelve years old and at the time of his first licensing had just finished high school. (This was Hugh Morson High School which for many years stood where the new Federal Building is now located near downtown Raleigh.)

Tom received his present call, WN4WII, in August of 1971. Being a CW man, he prefers 15 and 40 meters. The bulk of his gear consists of a pair of Heath DX-60's, an HW-16, and a Lafayette HA-800 receiver along with a ground mounted vertical antenna.

Having 40 years service with Edwards & Broughton Company, Tom is in charge of their proof-reading department. He and wife, Grace, live at 1315 Mordecai Drive. They have a son and daughter, both grown. His son is a Navy pilot now stationed at Brunswick, Maine and licensed as WN4WIJ/4. Tom says they used to work each other frequently when his son was stationed in Maryland but now their radio contacts are less frequent since his son is doing more traveling.

Among other club activities, Tom handles the monthly mailing of our newsletter to paid subscribers. As a matter of interest, I asked Tom how long he had been interested in radio. After some reflection he didn't nail it down to a specific date but said that he does recall listening to a homemade radio the night that WPTF first came on the air in the 1920's (then WRCO). I wonder how many other club members were listening that evening?

NEXT MEETING

The next monthly meeting of the RARS will be held Wednesday, June 6, at 7:30 PM. Part of the meeting will be discussion of the Field Day activities coming up the weekend of June 23-24. Bill McDowell, K4CIA, is chairman for Field Day activities this year.

The meeting will be held at the Civil Defense Headquarters in the basement of the NC State Government Administration Building, 116 West Jones Street. Enter through the back door. Everyone interested in Amateur Radio is invited to attend. And bring three friends!

PUBLISHED BY RALEIGH AMATEUR RADIO SOCIETY, INC., P. O. BOX 17124, RALEIGH, N. C. 27609 ☐ ADVERTISING MANAGER—PAUL BROWNE, WB4PZW; TECHNICAL EDITOR—BERT BAILEY, W4FMN ☐ OFFICERS: PRESIDENT—LEE JOHNSON, WA4ZNA; VICE PRESIDENT—SHERMAN STARNES, W4TZU: SECRETARY—CHUCK LITTLEWOOD W4RUH: TREASURER—JESSE HODGES, W4EEL ☐
PRINTED BY QUIK COPY, RALEIGH, N. C.

The RARS Executive and Advisory Committee proposed adding another vice president to the club. Since the club will be holding an annual hamfest in Raleigh, it would probably be a good idea to have someone to coordinate hamfest activities full time. This would be the new vice president's assignment. A committee has been formed to make suggestions for changes in the by-laws.

The May QST was dotted with RARS activities. Most outstanding was Dean Straw, WB4YOJ, and his standings in the ARRL Sweepstakes results. He was one of six amateurs in the nation to contact all 75 ARRL Sections on both phone and CW. He led the division on phone and was second on CW. Of course, he led North Carolina on both modes. SS results start on page 64. On page 91, it is noted that a 4RN certificate was issued to WB4OZL. A couple of club members have traffic reports under Station Activities. And on page 90, nine RARS members are pictured in connection with the SET in January.

FLASH - FLASH

After a long wait, we have heard that our president, Lee Johnson, WA4ZNA, is the proud father of an 8 pound, 4 ounce boy. He was born early in the morning on May 19. Wife Pam and baby are getting along just fine, but we are not too sure about Lee. They named the baby Michael Vickers. Our heartiest congratulations to Lee and Pam.

EMERGENCY COMMO

The RARS nets are beginning to experience the summer doldrums. Last week there was no NCS. I must take the blame for this, I guess. NCS's have been duly appointed but even they have some weak moments. Wn one asks you to fill in as NCS stop es think "why not?". Then maybe you'll see you can help out after all. The summer is a fine time fer natural disasters. So keep tuned to 146.94 and/or 28.540. If you're not a regular net subscriber, then tune in on THEN, then. That's right, 3923, where the elite meet. Remember the SOP, hit the RARS 2 meter or 10 meter frequency wn the balloon goes up. Ur friendly EC will try to nail you to an NCS post so each of us can get some sack along wid the gud stuff like operating a 10 hour shift. Also remember, if we do a VFB job, we get to pay FCC more money. Objections? Write ur Congressman today. Maybe fire off a hot letter to Vic so he can stack ammo.

--- Bert, EC, W4FMN --

RARS NOVICE CLASSES COMPLETED

The code and Theory Novice class which RARS was conducting was recently concluded with a lot of smiling faces the final result. Of the thirteen (13) people who participated in part or total in the class, nine (9) completed the course and also successfully passed their Novice exams. The smiling nine were James Adderholt, Phil Corey, Jr., Norm Creech, John Cunningham, Joe Homovec, George Richards, Alan Sadoski, Ann Swindell, and Ellie Workman. Hey guys, that's two new XYL's in the amateur population! All of the participants worked very hard toward obtaining their license and deserve our congratulations. The RARS members who served as instructors deserve a special thanks for thier time and effort.

Any RARS member knowing of any persons interested in participating in another Novice class should submit names and phone numbers to Lee Johnson, WA4ZNA, club president, so that the next class can be scheduled.

--- Al Clement, WA4DKZ ---

FOR SALE - RME 4350 Receiver, 160-10 meters. Fine receiver for beginner or Novice. $70.00. Wanted: Wanted: Navigator, Ranger, 2 meter rig for CW. Floyd, K4EQA.

May QST points up in its genesis the real strength of any org, incl ARRL, Ties in its volunteer leaders. What are YOU doing to help out? How many times do some say, "I haven't got time; I'm too busy. Get someone else"? Stop es think abt how much time the caller has; he could be busier than you, AND probably is. The same old story. Be part of the solution instead of part of the problem. Pertinent today, give Bill, our Field Day Chmn a call es volunteer ur aid. He can always use another hand. Tha's the famous DX'er, K4CIA. Maybe he'll give you a few extra countries, counties, es reefs to add to ur frantic drive fer all-band, 599, XYL, All-Mode, QRP DXCC wid no-hands indorsement. Oh yes, back to QST. Fer you non-alcoholic homebrewers, read abt a medium pwr HF-SSB-CW xmtr (Part 1) fer a companion to the SB303 receiver, antenna switch wid pwr-out reading, a xstr-FET-dualgate MOSFET-xtal tester, 40M quad (FD, anyone?), es ckt board construction. Gear QSO'd include Wide Band Engineering's miniature RF amp, Clegg FM27B FM xcvr, Henry's Kenwood TS511S xcvr, & Henry's CL146 es 220 FM xcvrs. If you want win FMT, read abt freq measuring by W8GRG on p22. Other interesting QSO's are transceiving wid the HX10, heat losses in transformers (smell smoke), using 219F filters es RCA IC's fer 2M FM rcvrs, all abt OSCAR on p36 and 62, ARRL's prexy W2TUK pleading fer FCC to minimize harassing es interdiction fires on us hams, WB4YOJ's sweep of CW es fone in the November Sweepstakes along wid ever-awake Vic's sweep of CW (never do know when W4KFC sleeps; as fer Dean, he's a lost cause -- leaving NC fer California es a few thousand more watts). Gud DX, Dean. We'll miss you. (Nice knowing you when you were legal.) Rules fer Field Day es don't look over FCC's exam sked on p98, most complete. In closing, the pic of the RARS SET crew on p90 makes me look longingly at the wig industry. No, no, 1000 times no. Sure glad Audrey's in pic to lend dignity to the occasion, es SDJ sure presents the professor mien, like ole Kay Kayser himself. Well, be sure fo digest QST, it's vy FB. Don't forget the Va State Convention in Vinton on 27 May.

May CQ calls its shots on the FCC on p7 -- the happenstance that CB'ers sure spend lots of dinero on their rigs (is this relavant??? Shouldn't be). A pertinent ad on p24 points up the ease of emergency commy -- use a btry es chager. Check wid PEN on this. FB way to be on the alert. CQ continues wid its bit on rehabbing the WU telefax es also has a VFB prediction tabl e on OSCAR on p40, building of a SSTV mon using electrostatic df (TV style) plus further SSTV news on p47, touchtone pads (freqs used, etc.), KW transformer fer 25 bucks, futher poop on Tex-Calif 2M plan, tilt-over twr fer $50, es a FB revue of Hallicrafter's FPM300. This is truly a gud rig. Had mine since last summer es it's, fer my money, a gud buy. Self contained AC-DC supply, 25-100 calibrator, a lgt 25 lbs, es easily opened fer maintenance. Got a problem wid residual noise that K4MC ferreted out but that's the only problem so far. (Watch the bottom fall out now that I sed that.) All told, FB issue this month, es on time.

May HAM starts off wid plea to write ur Congress abt TVI. Hot poop on ed's page. Remember wat I sed last time -- pen's mighter than the sword. Strike a blow fer hamdom. Then peruse a lo-cost RX bridge complete wid the formulas to use if you're caught widout a Smith Chart. (Good ole PJ.) An HB 40M log periodic, quad-yagi arrays fer 432 es 1296 (3/8" copper tubing), an 80M Z-shaped antenna fer cramped spaces, some simple ants fer 2M, 4-El collinear fer 440, design of gamma matches, using ur tower like the BC types, i.e. as grounded verticals, a multiband trap that fits in ur suitcase, es line matching fer the max ERP. Besides this antenna array, read also about details feeding the antenna including some proving experiments, adapting commercial types to ur specs, es CQ's usual FB display of ham goodies from all the well-known manufacturers. FB issue agn, HAM.

May 73 stays once more wid another brglr alarm to protect ur set of whls (proven in actual steals attempted 19 times), Next read abt a touchtone burst generator, sine wave power inverter (out wid square waves), HB preamp fer 450 MHz, whips fer the rooftop complete wid patterns, using LED readouts fer FM rigs, bandswitches, clocks, etc., mobile sensor that tells you abt smoke fromur rig before it goes, a digital clok wid 19 IC's, reducing power on the HR2A so you can walkie-talkie, installing the Ringo on ur car roof, building an NBFM 2M rig, Part II of the mini controller fer 2M, boosting the audio fer mobile xcvrs, 5W power fer 6M AM or FM, es some interesting ckts on p105 incl the electricians 3-way job we now call an or gate. Es like CQ, 73 winds up its QSO's wid mni FB listings of mucho de ham gear on the market. All we need is a realistic cost-of-living these days. Of course, the CB'ers . . . . . .

CARY NOVICE CLASS COMPLETED

The Cary Amateur Radio Club, under the direction of Warren Brainard, WB4DAR, graduated it's first Novice class on May 8th. Classes began on January 17, with 12 enrollees. The persons passing the exams were Kristina Brainard (13 years old), Linds Powell, Andrew Arico, and Joseph Kastleberg, all of Cary, Howard Corse of Raleigh, and Theodore Staton of Pittsboro.

--- Herb Lacey, K4FBG ---

FIVE BUCK LICENSE FEE

Chuck, our SCM, has contacted the State Legislators about the bill to reduce hams' car license fee to $2.00. To followup at my local QTH, I called up Congressman sponsor of the bill and he stated that to bring up the bill now would insure certain defeat so close to legislature's adjournment. He will bring up at the next meeting, 10 January. At that time he will solicit vocal and written support from Chuck, W4WXZ, and no doubt local RARS types. So fall back and regroup! Prepare rounds for 10 January!

--- Bert, W4FMN ---

DIDJA HEAR ABOUT ..... the CB'er who thought a bus bar was a cocktail lounge aboard a vehicle? or Gauss was singular for geese? Or negative charge was a poor credit risk?

NAMETAGS

Due to the unfortunate and untimely death of George Wallace, WB4PNR, who was handling our Nametag Committee chores, we are unable to locate the list of those who had ordered and paid for a nametag. Will all those who did order and pay George please let Bill McDowell, K4CIA, know and he will take care of procurement. Also, any of you who would like to have a nametag contact Bill, give him $1.00, and he will order you one. (John was first in line, Bill.)

QUOTES FROM AUTO-CALL

If you have trouble telling the sexes, now that both are wearing pants and long hair, the one in the receiving position is the OM . . . . and the one on transmit is the YL.

An amateur radio dealer received the following note with the final payment for his new rig: "Dear Sirs, This should make us even! Sincerely, but no longer yours."

"How interesting", said our mother-in-law, who was finally somewhat impressed by our amateur radio operation. We had just completed a QSO with two MARS operators.

We have been attending hamfests for almost twenty years now and we finally struck it rich. We won a Novice crystal for 40 meters.

VICKERS ELECTRONICS has Ten-Tec, Clegg, Regency, Tempo, Kenwood, Genave, Inoue, Hy-Gain, Miida, and lots more. 506 East Main Street in Durham. Phone 688-6311 .

The Raleigh Amateur Radio Society is now receiving subscriptions from those desiring to get the RARS NEWS every month. Subscription rates are $2.00 per year. Mail to: RARS NEWS, P.O. Box 17124, Raleigh, N. C. 27609.

Minutes of Meeting held

MAY 2, 1973

Chuck Littlewood, W4RUH
Secretary, RARS

The regular meeting of the Raleigh Amateur Radio Society was called to order by President Lee Johnson, WA4ZNA, at 7:35 PM in the CD room of the NC State Administration Building. Guests were introduced and 42 members and their guests were present.

Lee announced the League Officials (LO) meeting in Richmond, Virginia the weekend of May 19th. All members were urged to participate and make the necessary reservations.

Bill McDowell, K4CIA, our Field Day Chairman, is ready to sign up plenty of operators, SSB or CW. Field Day is June 23-24, 1973. We will be at the NC State Fairgrounds again this year. We are in urgent need of some gas driven generators for emergency power.

Our recent hamfest was a good success and Bob Corns received a good hand from all for heading up the affair. Bob and Lee said that all members and the committee chairmen all pitched in to lighten the load. All committee chairmen are to submit a brief written report on their activities and comments to the secretary as soon as possible.

The RARS advisory board has recommended that the position of "Vice President for the Hamfests" be created and the Society By-Laws be so amended. A committee to make recommendations and prepare the changes consists of Bob Workman, WA4ZZN, chairman; Tom Alexander, WA4OTA; Bill McDowell, K4CIA; and George Richards. The committee will report at the June meeting.

Ham Radio Week in North Carolina is planned to be observed in North Carolina and the Roanoke Division the week preceding Field Day weekend.

After the coffee break, Tom Martin, K4CQJ, and ex-VP, gave a very complete talk and demonstration on the ABC's of ham teletype operation. By the looks of the crowd after the talk we should see some new teletype activity among the club members. Much surplus equipment is coming available so this would be a good time to jump aboard this fascinating aspect of ham radio.

Meeting adjourned at 11:00 PM.

OSCAR

At the last XO meeting, K4MC brought up a brochure re Space Science involvement. It's a FB bit on high school participation in OSCAR's travels. Any of you school teachers interested in tracking OSCAR wid your students, write ARRL es ask fer it's OSCAR 6 curriculum supplement. The orbits make for real down-to-earth (?) calculations like in a physics class. The opportunities for student involvement in a most interesting feature of ham radio operating are truly outstanding. Who knows, OSCAR may replace SPOT in the educational literature. As discussed in the XO meeting, detailed poop on this feature of ham operations will be forthcoming in future issues by a member who is on top of this hurtling advertisement, yet with both feet firmly on the ground the better to communicate with the high school types. Take it away, Cecil. Es Sherm. (I'll Hep!)

--- Bert, W4FMN ---

CARY SWAPFEST

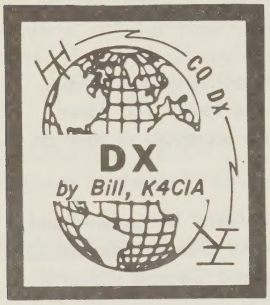
The Cary Amateur Radio Club is holding a swapfest on Saturday, July 21, 1973 at the Cary Lions Club Shelter. It will be held rain or shine and soft drinks will be for sale. The swapfest starts at 1:00 PM and the talk-in frequency will be 146.94 MHz. Everyone is invited to join in on the fun and trading.

NEW RARS MEMBER

Gene Robinson, W4BBS, joined the RARS last month. Gene has supported the club in the past and we are glad to have him as a full member. His QTH is Pittsboro, N. C. and he holds an Advanced Class License. Welcome to the club, Gene.

WAC ON 160

Bill McDowell, K4CIA, became the first and only station to earn a WAC on 160 meters from North Carolina. He was second in the Roanoke Division. Bill received Award # 40 for this accomplishment on CW. It's not the easiest award to earn since it has been in effect since 1953. Bill is noted for his award winning operating ways. He holds both the 5BDXCC and the 5BWAS awards among others.



UPCOMING DXPEDITIONS - African trip by K5QHS-expects to operate from CR3, CR5, TL8, TN8, TT8, TY, TZ, XT, 5T5, etc. Watch for San in July.
ZK1-Tongareva- Operation to begin June 30. Now counts as Manihiki, but NEW dope is in the mill which may give it new country status.
WS5MSC-Special prefix in use from Johnson Space Center during Flight of Skylab. Active all bands. QSL to NASA, Houston.

CURRENT GOODIES - VS5LH-QRV for next 2-1/2 years. Active on SEANET and Pacific DX net. C29ED -QRV until June 20 especially 40/80 meters. Will return to VK3TL. QSL P.O. Box 32, Nauru. A6XB-New call for MP4TDM. Country now called United Arab Emirates. QSL via K1DRN. SVØ-Crete- SVØWMM QRV daily 15-20-40 meters. 9F3USA/1-Dahlak Archipelago-Now QRT but on 18-24 May. Rumored to possibly be new one. QSL to WA5TKC. 9Q5BG-21295 SSB at 2150Z working WA8GPX. Other 9Q5 stns QRT. QSL via Ref. DT-Special prefix in use by German Republic Stns (DM) to celebrate 20th year of amateur radio in GDR.

QSL MANAGERS -

A6XB via K1DRN	FR7AK via CN8CG	JD1AHI via JA1BA
CR3AB via K3RLY	JD1ABX via JA1KSO	HW3UIT via F9OE
CR5AJ via K3RLY	JD1ADI via JA1KSO	MP4BJS via K2HVN
EIØDMF via E1ZI	JD1AHO via JA1KSO	M1D via I4FTU
EP2TC via K3RLY	JD1AHQ via JA1KSO	VKØIN via VK5WV
FB8XC via F2MO	JD1YAG via JA1KSO	VP7BA via G3AMR
FGØ-FSØ Rx via DJ9ZB	JD1YAF via JH1ARJ	VP8JE via WA5FWC
FL8OM/4W1 via DJ1TC	JD1AHC via JA8AWH	ZD3M via K3GJD

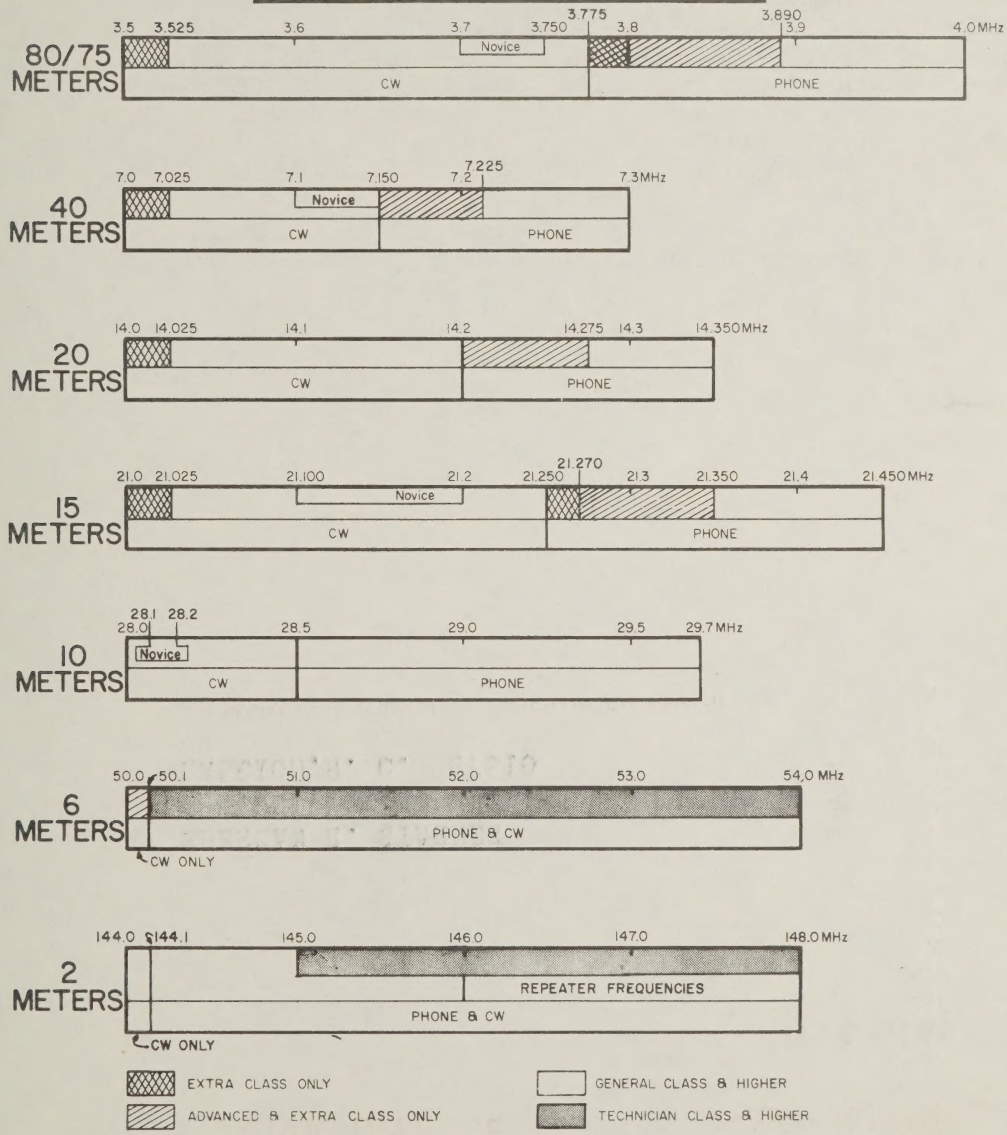
QSL DIRECT - A4XFE - S. R. Christmas, P.O. Box 981, Muscat, Sultanate of Oman
CN8MC - P. O. Box 5210, Casablanca
DU8BA - P.O. Box 444, Capalan
FO8DF - B.P. 1825, Papeete
JY3BZ - P.O. Box 1352, Amman
VQ9D & VQ9M - P.O. Box 191, Mahe, Seychelles
VS5LH - L. Hickingbotham, P.O. Box 91, Kuala Belait, Brunei
XW8FH - P.O. Box 345, Vientiane
ZD3D - Cecil Wiltshire, P.O.Box 10, Banjul, The Gambia

TIDBITS - Regrets-Silent Key - WA3HGV (Home Grown Vegatables), Age 30. GI6TK.
Targo Florio IT57 Award - For QSO's with 5 IT57 stations. Send $2 or 10 IRC's to P.O. Box 420, Palermo, Sicily.

AMATEUR BANDS AND OPERATING PRIVILEGES

(Effective November 22, 1972 – FCC Rules, Part 97)

Compliments of Raleigh Amateur Radio Society
P.O. Box 17124, Raleigh, N.C. 27609



RARS
CALENDAR OF EVENTS

June 6 . . . Regular Meeting
June 9-10. . VHF QSO Party
June 20. . . Exec. & Adv. Comm. meets
June 23-24 . FIELD DAY
July 4 . . . Regular meeting
July 18 . . . Exec. & Adv. Comm. meets
August 1 . . . . . Regular meeting
August 15. . . . . Exec. & Adv. Comm. meets
September 5 . . . Regular meeting
September 8-9 . . VHF QSO Party
September 14-16 . Roanoke Div. Convention
September 19. . . Exec. & Adv. Comm. meets
Spring 1974 . . . . . SECOND ANNUAL RARS HAMFEST

RARS 2 METER FM NET --- MONDAY NIGHTS AT 8:00 PM --- 146.94 MHz
RARS 10 METER SSB NET --- MONDAY NIGHTS AT 8:30 PM --- 28.540 MHz

RALEIGH AMATEUR RADIO SOCIETY, INC.
POST OFFICE BOX 17124
RALEIGH, NORTH CAROLINA 27609

YOUR INSURANCE
AGAINST DISASTER
CIVIL DEFENSE

First Class Mail